

WHAT IS CLAIMED IS:

1. An optical pickup comprising:

an optical bench;

a plate provided with a photodiode;

5 a plurality of through holes formed at a plurality of portions of the plate with a shape having a border line of a closed circular shape; and

adhesive agent layers provided between each of the through holes and a surface of the optical bench that opposes to the through holes, and supports the plate from the optical bench with a minute gap,

wherein each of the through holes are formed with a shape and a size that are identical to each other,

wherein the minute gap is formed between an upper surface of the optical bench and the plate disposed on an upper portion of the optical bench,

wherein the adhesive agent layer is formed by an adhesive agent that is injected from above into the through holes to be forced out downward through the through holes and is cured in a state being reached an upper surface of the optical bench, and

wherein each of the adhesive agent layers are formed by injecting a same amount of the adhesive agent to each of the through holes.

2. An optical pickup comprising:

an optical bench;

a plate provided with a photodiode;

a plurality of through holes formed at a plurality  
of portions of the plate with a shape having a border line  
5 of a closed shape; and

adhesive agent layers provided between each of the  
through holes and a surface of the optical bench that  
opposes to the through holes, and supports the plate from  
the optical bench with a minute gap.

10 3. The optical pickup according to claim 2, wherein the  
through holes are formed with a shape having a border line  
of a circular shape.

4. The optical pickup according to claim 2, wherein the  
minute gap is formed between an upper surface of the optical  
15 bench and the plate disposed on an upper portion of the  
optical bench, and

wherein the adhesive agent layers are formed by an  
adhesive agent that is injected from above into the through  
holes to be forced out downward through the through holes  
20 and is cured in a state being reached an upper surface of  
the optical bench.

5. The optical pickup according to claim 2, wherein each  
of the through holes are formed with a shape and a size  
that are identical to each other.